

Thermometry, Italy, IMGC (Istituto di Metrologia G. Colonnetti)

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty						
Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Comments	NMI Service Identifier
Temperature	Fixed point cell for CSPRT	Triple point of equilibrium Hydrogen	13.8033	13.8033	K	Cryostat	isothermal	0.32	mK	2	95%	No	Approved on 18 May 2004	T/09/01
Temperature	Fixed point cell for CSPRT	Triple point of Neon	24.5561	24.5561	K	Cryostat	isothermal	0.22	mK	2	95%	No	Approved on 18 May 2004	T/09/02
Temperature	Fixed point cell for CSPRT	Triple point of Oxygen	54.3584	54.3584	K	Cryostat	isothermal	0.17	mK	2	95%	No	Approved on 18 May 2004	T/09/03
Temperature	Fixed point cell for CSPRT	Triple point of Argon	83.8058	83.8058	K	Cryostat	isothermal	0.14	mK	2	95%	No	Approved on 18 May 2004	T/09/04
Temperature	Fixed point cell for CSPRT	Triple point of Mercury	234.3156	234.3156	K	Thermostat	isothermal	0.14	mK	2	95%	No	Approved on 18 May 2004	T/09/05
Temperature	Fixed point cell for LSPRT	Freezing point of Indium	156.5985	156.5985	°C	Heat pipe furnace	isothermal	0.7	mK	2	95%	No	Approved on 18 May 2004	T/09/11
Temperature	Fixed point cell for LSPRT	Freezing point of Tin	231.928	231.928	°C	Heat pipe furnace	isothermal	0.6	mK	2	95%	No	Approved on 18 May 2004	T/09/12
Temperature	Fixed point cell for LSPRT	Freezing point of Zinc	419.527	419.527	°C	Heat pipe furnace	isothermal	0.9	mK	2	95%	No	Approved on 18 May 2004	T/09/13
Temperature	Fixed point cell for LSPRT	Freezing point of Aluminium	660.323	660.323	°C	Heat pipe furnace	isothermal	2	mK	2	95%	No	Approved on 18 May 2004	T/09/14
Temperature	CSPRT	Calibration at triple point of Hydrogen	13.8033	13.8033	K	Fixed point	isothermal	0.35	mK	2	95%	No	Approved on 18 May 2004	T/11/01
Temperature	CSPRT	Calibration at triple point of Neon	24.5561	24.5561	K	Fixed point	isothermal	0.30	mK	2	95%	No	Approved on 18 May 2004	T/11/02
Temperature	CSPRT	Calibration at triple point of Oxygen	54.3584	54.3584	K	Fixed point	isothermal	0.25	mK	2	95%	No	Approved on 18 May 2004	T/11/03

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Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Comments	NMI Service Identifier
Temperature	CSPRT	Calibration at triple point of Argon	83.8058	83.8058	K	Fixed point	isothermal	0.12	mK	2	95%	No	Approved on 18 May 2004	T/11/04
Temperature	CSPRT	Calibration at triple point of Mercury	234.3156	234.3156	K	Fixed point	isothermal	0.12	mK	2	95%	No	Approved on 18 May 2004	T/11/05
Temperature	LSPRT	Calibration at the melting point of Gallium	29.7646	29.7646	°C	Fixed point	isothermal	0.2	mK	2	95%	No	Approved on 18 May 2004	T/11/10
Temperature	LSPRT	Calibration at the freezing point of Indium	156.5985	156.5985	°C	Fixed point	isothermal	0.7	mK	2	95%	No	Approved on 18 May 2004	T/11/11
Temperature	LSPRT	Calibration at the freezing point of Tin	231.928	231.928	°C	Fixed point	isothermal	0.6	mK	2	95%	No	Approved on 18 May 2004	T/11/12
Temperature	LSPRT	Calibration at the freezing point of Zinc	419.527	419.527	°C	Fixed point	isothermal	0.9	mK	2	95%	No	Approved on 18 May 2004	T/11/13
Temperature	LSPRT	Calibration at the freezing point of Silver	961.78	961.78	°C	Fixed point	isothermal	3	mK	2	95%	No	Approved on 18 May 2004	T/11/15